

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	450	(548/541).CCLS.	US-PGP UB; USPAT; USOCR ; EPO; JPO; DERWE NT; IBM_T DB	OR	OFF	2007/06/24 08:32
L2	160	(549/15).CCLS.	US-PGP UB; USPAT; USOCR ; EPO; JPO; DERWE NT; IBM_T DB	OR	OFF	2007/06/24 08:32
L3	0	I1 and I2	US-PGP UB; USPAT; USOCR ; EPO; JPO; DERWE NT; IBM_T DB	OR	ON	2007/06/24 08:33

10541607C>

06/24/2007

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FILE 'REGISTRY' ENTERED AT 11:10:47 ON 19 FEB 2007
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STRUCTURE FILE UPDATES: 18 FEB 2007 HIGHEST RN 921759-52-6
DICTIONARY FILE UPDATES: 18 FEB 2007 HIGHEST RN 921759-52-6

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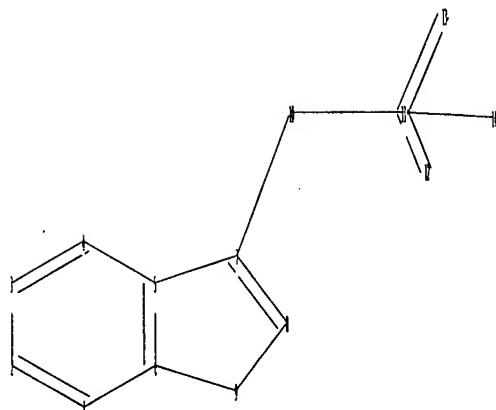
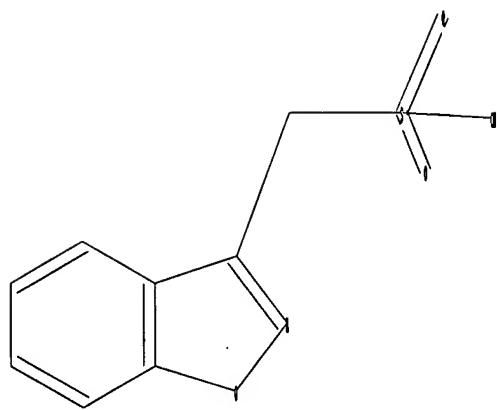
TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

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=>
Uploading C:\Program Files\Stnexp\Queries\10541607.str



chain nodes :
10 11 12 13 14

ring nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

7-10 10-11 11-12 11-13 11-14

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9

exact/norm bonds :

5-7 6-9 7-8 8-9 10-11

exact bonds :

7-10

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 11-12 11-13 11-14

Match level :

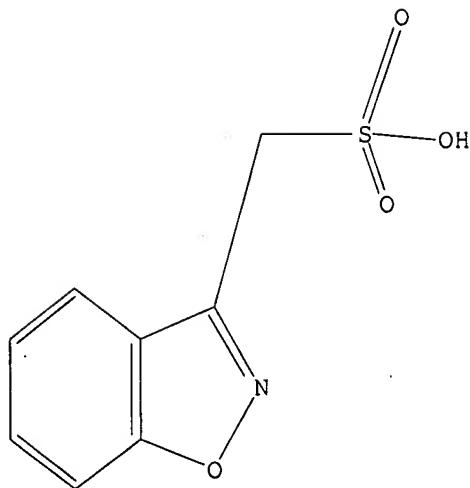
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS

L1 STRUCTURE UPLOADED

=> D

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> S L1

SAMPLE SEARCH INITIATED 11:11:07 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 5 TO ITERATE

100.0% PROCESSED 5 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 5 TO 234
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> S L1 FULL
FULL SEARCH INITIATED 11:11:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 102 TO ITERATE

100.0% PROCESSED 102 ITERATIONS 14 ANSWERS
SEARCH TIME: 00.00.01

L3 14 SEA SSS FUL L1

=> FILE CAPLUS
COST IN U.S. DOLLARS SINCE FILE TOTAL
FULL ESTIMATED COST ENTRY SESSION
172.10 172.31

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FILE LAST UPDATED: 18 Feb 2007 (20070218/ED)

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=> S L3
L4 17 L3

=> S L3 AND OXIME
17 L3
45138 OXIME
16097 OXIMES
50073 OXIME
(OXIME OR OXIMES)
L5 2 L3 AND OXIME

=> D IBIB ABS HITSTR TOT

LS ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:606452 CAPLUS

DOCUMENT NUMBER: 141:140420

TITLE: A process for the preparation of

benzo[d]isoxazol-3-yl-

methanesulfonic acid

INVENTOR(S): Razzetti, Gabriele; Mantegazza, Simone; Castaldi, Graziano; Allegri, Pietro; Lucchini, Vittorio; Bologna, Alberto

PATENT ASSIGNEE(S): Dinamite Dipharm S.P.A., Italy

SOURCE: PCT Int. Appl., 22 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004063173	A1	20040729	WO 2003-EP14919	20031224
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VZ, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				
EP 1581508	A1	20051005	EP 2003-795972	20031224
R: AT, BE, CH, DE, DK, ES, FR, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006515322	T	20060525	JP 2005-512865	20031224
US 2006135582	A1	20060622	US 2005-541607	20050707
PRIORITY APPN. INFO.:			IT 2003-MI26	A 20030110
			IT 2003-MI1383	A 20030704
			WO 2003-EP14919	W 20031224

OTHER SOURCE(S): CASREACT 141:140420

AB The title compound (I) or its salt, useful as an intermediate in the preparation of anticonvulsant zonisamide, is prepared by reaction of 1,2-benzoxathin-4(3H)-one 2,2-dioxide oxime (II) with organic base or alkali or alkaline earth hydroxide. Thus, reaction of II with eq NaOH at

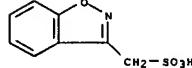
room temperature for 3 h gave 70% sodium salt of I.

IT 726188-85-8P

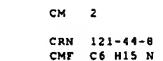
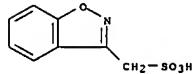
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation) (preparation of 1,2-benzoxazole-3-methanesulfonic acid or its salt

as

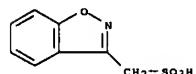
LS ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



● Li



IT 73101-64-1P 726188-84-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of 1,2-benzoxazole-3-methanesulfonic acid or its salt
 as intermediate for zonisamide)
 RN 73101-64-1 CAPLUS
 CN 1,2-Benzoxazole-3-methanesulfonic acid, sodium salt (9CI) (CA INDEX NAME)



RN 726188-84-7 CAPLUS
 CN 1,2-Benzoxazole-3-methanesulfonic acid, lithium salt (9CI) (CA INDEX NAME)

LS ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

LS ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:695963 CAPLUS

DOCUMENT NUMBER: 137:216942

TITLE: Process for the preparation of 1,2-benzoxazole-3-acetic acid, an intermediate in the synthesis of zonisamide

INVENTOR(S): Mendelovitch, Mariogara; Nidam, Tamar; Teva Pharmaceutical Industries Ltd., Israel; Teva Pharmaceuticals USA, Inc.

PATENT ASSIGNEE(S): Teva Pharmaceutical Industries Ltd., Israel; Teva Pharmaceuticals USA, Inc.

SOURCE: PCT Int. Appl., 14 pp.

DOCUMENT TYPE: Patent

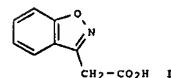
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002070495	A1	20020912	WO 2002-US6419	20020304
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, ID, IL, IN, IS, JP, KE, KG, KP, KR, KE, LC, LK, LS, LT, LU, LV, MA, MD, MG, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TH, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TE, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				
CA 2440030	A1	20020912	CA 2002-2440030	20020304
US 2002183525	A1	20021205	US 2002-90710	20020304
US 6677458	B2	20040113		
EP 1373229	A1	20040102	EP 2002-717527	20020304
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2004049053	A1	20040311	US 2003-661109	20030912
PRIORITY APPN. INFO.:			US 2001-273172P	P 20010302
			US 2001-294847P	P 20010531
			US 2002-90710	A3 20020304
			WO 2002-US6419	W 20020304

OTHER SOURCE(S): CASREACT 137:216942
 GI



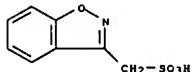
AB A process for the preparation of 1,2-benzoxazole-3-acetic acid (I) from

L5 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 4-hydroxycoumarin and hydroxylamine.HCl in the presence of a base is disclosed. Compd. I has com. importance as a key intermediate in the prepn. of Zonisamide. For example, a soln. of 4-hydroxycoumarin (100 g), hydroxylamine hydrochloride (150 g) and diethylamine (160 g) in MeOH (500 ml) was heated at reflux for 1 h. The reaction mixt. was evapd. to dryness and the solid dissolved in aq. NaHCO₃ and extd. with ether.

After acidification of the aq. phase, the product was isolated by filtration, washed with water and dried to provide I (99.82 g) in 93 % wt./wt. yield. Advantages of the present invention are: (1) the prep. of I without the use of metallic sodium; and (2) the minimization of reaction side-products, e.g., oxime. The process is thus substantially less hazardous than previous methods. The invention also claims the prep. I or salts of which are converted to 1,2-benzoxazole-3-methanesulfonamide, i.e., zonisamide.

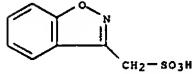
IT 73101-64-1P, 1,2-Benzoxazole-3-methanesulfonic acid sodium salt 342623-49-8P, 1,2-Benzoxazole-3-methanesulfonic acid 457635-27-7P 457635-28-8P
 RL: IMP (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
 (product; process for preparation of 1,2-benzoxazole-3-acetic acid, an intermediate in synthesis of zonisamide)

RN 73101-64-1 CAPLUS
 CN 1,2-Benzoxazole-3-methanesulfonic acid, sodium salt (9CI) (CA INDEX NAME)



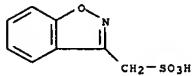
● Na

RN 342623-49-8 CAPLUS
 CN 1,2-Benzoxazole-3-methanesulfonic acid (9CI) (CA INDEX NAME)



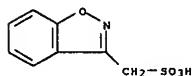
RN 457635-27-7 CAPLUS
 CN 1,2-Benzoxazole-3-methanesulfonic acid, calcium salt (9CI) (CA INDEX NAME)

L5 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



● 1/2 Ca

RN 457635-28-8 CAPLUS
 CN 1,2-Benzoxazole-3-methanesulfonic acid, barium salt (9CI) (CA INDEX NAME)



● 1/2 Ba

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

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	ENTRY	SESSION

FULL ESTIMATED COST

13.02

185.33

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

	SINCE FILE	TOTAL
	ENTRY	SESSION

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